

TRADAS

A lower-cost, lower-risk solution



Overview

- Who is Chaparral Systems Corporation?
- What does TRADAS do?
- TRADAS and the enterprise.



About Chaparral

- Traffic data analysis since 1988.
- Developed New Mexico TMS.
- Participated in national standards development processes .
- Developed initial SHRP (now LTPP) traffic database.
- Developed TRADAS software.
- LTPP Technical Assistance Contractor.
- Subcontractor, TMG revisions project.
- Currently active in NTCIP DCM, ITS/NA ADUS.



Types of Traffic Data

- Volume
- Vehicle Classification
- Length
- Speed
- Weight
- Lane (loop) occupancy
- Headway, gap, *etc.*



Vendors *Currently* Supported

- Volume/binning: Peek, Diamond, IRD, Golden River, ITC, MetroCount.
- Weight: ECM, IRD, PAT, Golden River, Peek, ARRB.
- *Etc.*



Supported Standards and Guidelines

- *Traffic Monitoring Guide* (and HPMS).
- *AASHTO Guidelines for Traffic Data Programs*.
- ASTM E-1440 (subordinate to AASHTO).
- In process: National ITS Architecture Archived Data User Service, NTCIP Data Collection Monitoring



Permanent Site Processing

- Polling management.
- Quality control (QC) at three levels.
- QC status reporting and data purging.
- Daily, monthly, annual summarization.
- Factor calculations.



Short-term Counts

- Data input management.
- QC, three levels for hourly counts.
- QC status, data purging.
- Daily, annual summarization.
- Annual summarization applies factors.
- Supports cumulative volume counts, manual vehicle classification counts.



Factors and Factor Groups

- Monthly or seasonal.
- Day of week.
- Axle correction.
- Growth.
- *Etc.*



Levels of Data

- Detailed.
- Oracle-visible except for vehicle records.
- Daily summaries.
- Monthly summaries.
- Annual summaries.



The TRADAS Public Database

- A flat (denormalized) model.
- Maintained on same or different server.
- Updated daily.
- Access through ODBC, ADO, *etc.*
- The enterprise data repository.
- Will be an ADUS-compliant traffic data mart.

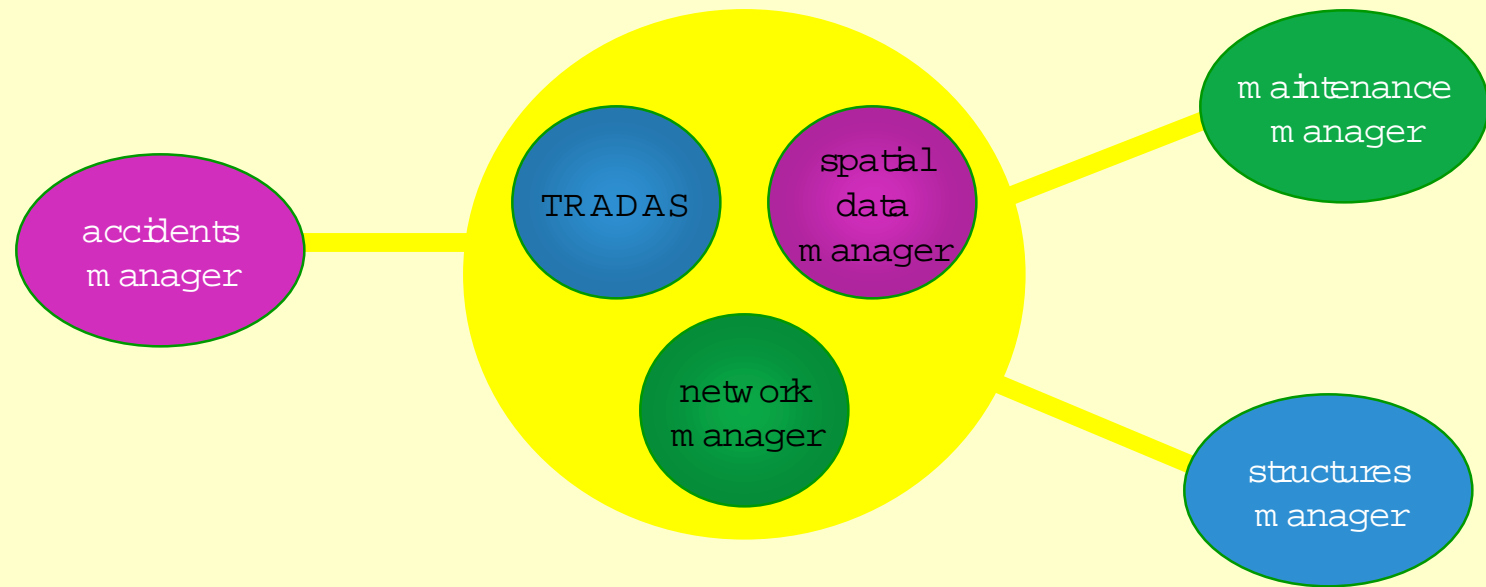


TRADAS and the Enterprise

- Main Roads Western Australia our first “from scratch” project.
- Installing *highways by exor*.
- Using TRADAS/*traffic manager* for traffic.
- Status:
 - TRADAS processing is installed.
 - *Traffic manager* designed (by *exor*).



Fully Integrated Products



Supporting Products

- Research and analysis
 - Count program.
 - WIM.
- TRADAS operations.
- Traffic data processing services.
- The ADUS thing: integration of operations data (including real-time).



Advantages

- Full processing functionality at minimal development risk.
- Large community of users.
- Can stay current with new TRADAS releases.
- TRADAS designed for easy integration.
- Designed and maintained by traffic experts.

